WHAT IS CLAIMED IS:

1. A method for generating fragments of an antibody, comprising:

providing an antibody-producing cell line that is growing in a cell media under conditions to express antibodies;

adjusting the conditions of the cell media to activate at least one endogenous enzyme that cleaves said antibodies; and

incubating said cell line under said conditions so that said antibodies are cleaved into antibody fragments.

- 2. The method of Claim 1, wherein said antibodies are cleaved into F(ab')₂ fragments.
- 3. The method of Claim 1, wherein adjusting the conditions of the cell media comprises adjusting the temperature of the cell media.
- 4. The method of Claim 1, wherein adjusting the conditions of the cell media comprises adjusting the pH of the cell media.
- 5. The method of Claim 4, wherein adjusting the pH comprises adjusting the pH to about pH 3.5.
- 6. The method of Claim 1, further comprising inactivating said at least one endogenous enzyme after incubating said cell line.
- 7. The method of Claim 1, further comprising substantially purifying said antibody fragments by affinity chromatography.
- 8. The method of Claim 1, wherein said at least one enzyme comprises a serine protease.
- 9. The method of Claim 1, wherein said at least one enzyme comprises a cysteine protease.
- 10. The method of Claim 1, wherein said at least one enzyme comprises an aspartyl protease.
- 11. The method of Claim 1 wherein the cell line comprises cells selected from the group consisting of: Chinese hamster ovary cells, HeLa cells, baby hamster kidney cells, monkey kidney cells, and human hepatocellular carcinoma cells.
 - 12. The method of Claim 1 wherein the cell line comprises CHO-DG44 cells.

- 13. The method of Claim 1 wherein the cell media is a protein free media.
- 14. The method of Claim 1 wherein the cell media comprises a peptone source.
- 15. The method of Claim 1 wherein the cell media is a CD-CHO media.
- 16. The method of Claim 1 further comprising inactivating said at least one enzyme by adjusting pH.
- 17. The method of Claim 16 wherein inactivating said at least one enzyme comprises inactivating a cysteinyl enzyme.
- 18. The method of Claim 17 further comprising activating an aspartyl enzyme by adjusting the pH of the cell media after endogenous cysteinyl enzyme activity has been reduced.
 - 19. A method for producing F(ab')₂ fragments of an antibody, comprising:

 providing a cell media comprising a cell line that is growing under conditions to produce a recombinant antibody;

inactivating endogenous cysteinyl enzyme activity in said cell media; and activating endogenous aspartyl enzyme activity in said cell media, wherein said activation results in cleavage of said recombinant antibody into F(ab')₂ fragments.

- 20. The method of Claim 19 wherein the cell media is a CD-CHO media.
- 21. The method of Claim 19, wherein inactivating endogenous cysteinyl enzyme activity comprises adjusting the pH of the cell media.
- 22. The method of Claim 19, wherein inactivating endogenous cysteinyl enzyme activity comprises adding a cysteinyl enzyme inhibitor to the cell media.
 - 23. The method of Claim 22, wherein cysteinyl enzyme inhibitor is E64.
- 24. The method of Claim 19, wherein activating endogenous aspartyl enzyme activity comprises adjusting the pH of the cell media.
- 25. The method of Claim 19, further comprising purifying said F(ab')₂ fragments from said cell media.
 - 26. Antibody fragments produced by a method comprising the steps of:

 providing an antibody-producing cell line that is growing in a cell media under conditions to express antibodies;

adjusting the conditions of the cell media to activate at least one enzyme that cleaves said antibodies; and

incubating said cell line under said conditions so that said antibodies are cleaved into antibody fragments.

- 27. The antibody fragments according to Claim 26 wherein adjusting the conditions of the cell media comprises adjusting the temperature of the cell media.
- 28. The antibody fragments according to Claim 26 wherein adjusting the conditions of the cell media comprises adjusting the pH of the cell media.
- 29. The antibody fragments according to Claim 26 wherein adjusting the pH comprises adjusting the pH to about pH 3.5.